

**** SUMMARY SCORESHEET ****

CONFIDENTIAL

Site Name: John Hassall
City, County, State:
Region:
Cerclis IDNYD002045417
Lat/Long:
Congressional

	S Pathway	S2 Pathway
Ground Water Migration Pathway Score (S _{gw})	100.00	10,000.00
Surface Water Migration Pathway Score (S _{sw})		
Soil Exposure Pathway Score	0.00	0.00
Air Migration Score (S _a)	4.11	16.92
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		
$\sqrt{(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4}$		50.04



333197



SOURCE INFORMATION

3/23/2005 3:41:21PM

3/23/2005 3:40:16PM Dan Gaughar

Session 17 - John Hassall - Rev - Site Score: 50.04

DocRec Comments

-

CONFIDENTIAL**Source 1 - Former Wastewater Recharge Basin**LatitudeLongitude

Type: Surface Impoundment(not buried/backfill) / Dry

Lowest Depth of Contamination (ft): 0.50

Is Tier A Adequately Determined? No

Is Tier B Adequately Determined? No

Description:

Location:

Source HWQ: 73.85

Constituents (Tier A) Assigned Value:

WasteStream (Tier B) Assigned Value:

Volume (Tier C): 0.00cu ft

Assigned Value:

Volume Ref:

Area (Tier D): 960.00sq ft

Assigned Value: 73.85

Area Ref:

Containment

GW	10	Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).
SWOL	10	Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).
Gas	10	All situations except those specifically listed in HRS Table 6-3.
Particulate	10	All situations except those specifically listed in HRS Table 6-9.

Evidence 1 - S-01

Purpose: Analytical Sample

Type: Sample

This is a BACKGROUND sample

Is Sample Filtered? No

Depth: 0.50

Lat: 0.00 Long: 0.00

CAS Number	Chemical Name	Quantity	Quantitation		Qualfr	BackSamp	Man	Ubiq	Liquid	Neigh	Reference
			Limit								
007439-97-6	Mercury	0.07 mg/kg	0.10 mg/kg						X		
007440-02-0	Nickel	9.60 mg/kg	8.00 mg/kg						X		
007440-36-0	Antimony	1.62 mg/kg	12.00 mg/kg		NJ						
007440-47-3	Chromium	18.20 mg/kg	2.00 mg/kg						X		
007440-50-8	Copper	14.30 mg/kg	5.00 mg/kg						X		
007440-66-6	Zinc	40.40 mg/kg	12.00 mg/kg						X		

Evidence 2 - S-03

Purpose: Analytical Sample

Type: Sample

This is a RELEASE sample

Is Sample Filtered? No

Depth: 0.50

Lat: 0.00 Long: 0.00

<u>CAS_Number</u>	<u>Chemical_Name</u>	<u>Quantity</u>	<u>Quantitation</u> <u>Limit</u>	<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u> <u>Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
007440-02-0	Nickel	68.80 mg/kg	8.00 mg/kg					X		
007440-36-0	Antimony	0.53 mg/kg	12.00 mg/kg	NJ				X		
007440-50-8	Copper	59.40 mg/kg	5.00 mg/kg					X		
007440-66-6	Zinc	148.00 mg/kg	12.00 mg/kg					X		

Evidence 3 - S-04

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 0.50
Lat: 0.00 Long: 0.00

CONFIDENTIAL

<u>CAS_Number</u>	<u>Chemical_Name</u>	<u>Quantity</u>	<u>Quantitation</u> <u>Limit</u>	<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u> <u>Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
007440-02-0	Nickel	43.40 mg/kg	8.00 mg/kg					X		
007440-36-0	Antimony	0.22 mg/kg	12.00 mg/kg	NJ				X		
007440-50-8	Copper	40.70 mg/kg	5.00 mg/kg					X		
007440-66-6	Zinc	134.00 mg/kg	12.00 mg/kg					X		

Evidence 4 - S-06

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 0.50
Lat: 0.00 Long: 0.00

<u>CAS_Number</u>	<u>Chemical_Name</u>	<u>Quantity</u>	<u>Quantitation</u> <u>Limit</u>	<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u> <u>Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
007440-02-0	Nickel	7.70 mg/kg	8.00 mg/kg					X		
007440-36-0	Antimony	6.30 mg/kg	12.00 mg/kg	UNJ				X		
007440-50-8	Copper	8.10 mg/kg	5.00 mg/kg					X		
007440-66-6	Zinc	23.20 mg/kg	12.00 mg/kg					X		

Evidence 5 - S-08

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 0.50
Lat: 0.00 Long: 0.00

<u>CAS_Number</u>	<u>Chemical_Name</u>	<u>Quantity</u>	<u>Quantitation</u> <u>Limit</u>	<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u> <u>Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
007439-97-6	Mercury	0.21 mg/kg	0.10 mg/kg					X		
007440-02-0	Nickel	115.00 mg/kg	8.00 mg/kg					X		
007440-36-0	Antimony	0.61 mg/kg	12.00 mg/kg	NJ				X		
007440-47-3	Chromium	84.00 mg/kg	2.00 mg/kg					X		
007440-50-8	Copper	89.90 mg/kg	5.00 mg/kg					X		
007440-66-6	Zinc	137.00 mg/kg	12.00 mg/kg					X		

Evidence 6 - S-09

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 0.50
Lat: 0.00 Long: 0.00

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Limit</u>	<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u> <u>Made</u>	<u>Ubic</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
007439-97-6	Mercury	0.23 mg/kg	0.10 mg/kg					X		
007440-02-0	Nickel	87.30 mg/kg	8.00 mg/kg					X		
007440-36-0	Antimony	1.10 mg/kg	12.00 mg/kg	NJ				X		
007440-47-3	Chromium	52.70 mg/kg	2.00 mg/kg					X		
007440-50-8	Copper	97.30 mg/kg	5.00 mg/kg					X		
007440-66-6	Zinc	326.00 mg/kg	12.00 mg/kg					X		

CONFIDENTIAL

Source 2 - Former UST area Contaminated SoilLatitudeLongitude

Type: Contaminated Soil / N/A

Lowest Depth of Contamination (ft): 29.00

Is Tier A Adequately Determined? No

Is Tier B Adequately Determined? No

Description:

Location:

Source HWQ: 0.02

Constituents (Tier A) Assigned Value:

WasteStream (Tier B) Assigned Value:

Volume (Tier C):

Assigned Value:

Volume Ref:

Area (Tier D): 571.00sq ft

Assigned Value: 0.02

Area Ref:

Containment

GW	10	No evidence of hazardous substance migration from source area, a liner, and: None of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.
SWOL	10	No evidence of hazardous substance migration from source area and: Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
Gas	10	All situations except those specifically listed in HRS Table 6-3.
Particulate	10	All situations except those specifically listed in HRS Table 6-9.

Evidence 1 - SS-02

Purpose: Analytical Sample

Type: Sample

This is a BACKGROUND sample

Is Sample Filtered? No

Depth: 29.00

Lat: 0.00 Long: 0.00

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>BackSamp</u>	<u>Man Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
			<u>Limit</u>								
007439-97-6	Mercury	0.01 mg/kg	0.10 mg/kg						X		
007440-02-0	Nickel	2.20 mg/kg	8.00 mg/kg						X		
007440-36-0	Antimony	12.28 mg/kg	12.00 mg/kg	UNJ					X		
007440-47-3	Chromium	7.00 mg/kg	2.00 mg/kg						X		
007440-50-8	Copper	2.40 mg/kg	5.00 mg/kg						X		
007440-66-6	Zinc	3.40 mg/kg	12.00 mg/kg						X		

Evidence 2 - SS-03

Purpose: Analytical Sample

Type: Sample

This is a RELEASE sample

Is Sample Filtered? No

Depth: 29.00

Lat: 0.00 Long: 0.00

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>BackSamp</u>	<u>Man Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
			<u>Limit</u>								
007439-97-6	Mercury	0.09 mg/kg	0.10 mg/kg	U					X		
007440-02-0	Nickel	5.50 mg/kg	8.00 mg/kg								

CONFIDENTIAL

007440-36-0	Antimony	6.20 mg/kg	12.00 mg/kg	UNJ	X
007440-47-3	Chromium	10.40 mg/kg	2.00 mg/kg		X
007440-50-8	Copper	5.50 mg/kg	5.00 mg/kg		X
007440-66-6	Zinc	8.20 mg/kg	12.00 mg/kg		X

Evidence 3 - SS-04

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 29.00
Lat: 0.00 Long: 0.00

CONFIDENTIAL

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u>		<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
			<u>Limit</u>				<u>Made</u>					
007439-97-6	Mercury	0.01 mg/kg	0.10 mg/kg		J					X		
007440-02-0	Nickel	4.10 mg/kg	8.00 mg/kg							X		
007440-36-0	Antimony	0.31 mg/kg	12.00 mg/kg		NJ					X		
007440-47-3	Chromium	24.30 mg/kg	2.00 mg/kg							X		
007440-50-8	Copper	6.00 mg/kg	5.00 mg/kg							X		
007440-66-6	Zinc	6.00 mg/kg	12.00 mg/kg							X		

Evidence 4 - SS-05

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 27.00
Lat: 0.00 Long: 0.00

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u>		<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
			<u>Limit</u>				<u>Made</u>					
007439-97-6	Mercury	0.01 mg/kg	0.10 mg/kg		J					X		
007440-02-0	Nickel	12.20 mg/kg	8.00 mg/kg							X		
007440-36-0	Antimony	7.10 mg/kg	12.00 mg/kg		UNJ					X		
007440-47-3	Chromium	15.80 mg/kg	2.00 mg/kg							X		
007440-50-8	Copper	14.40 mg/kg	5.00 mg/kg							X		
007440-66-6	Zinc	7.50 mg/kg	12.00 mg/kg							X		

Evidence 5 - SS-06

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 29.00
Lat: 0.00 Long: 0.00

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>BackSamp</u>	<u>Man</u>		<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
			<u>Limit</u>				<u>Made</u>					
007439-97-6	Mercury	0.02 mg/kg	0.10 mg/kg		J					X		
007440-02-0	Nickel	5.00 mg/kg	8.00 mg/kg							X		
007440-36-0	Antimony	6.10 mg/kg	12.00 mg/kg		UNJ					X		
007440-47-3	Chromium	15.50 mg/kg	2.00 mg/kg							X		
007440-50-8	Copper	10.80 mg/kg	5.00 mg/kg							X		
007440-66-6	Zinc	8.20 mg/kg	12.00 mg/kg							X		

Evidence 6 - SS-07

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 29.00
Lat: 0.00 Long: 0.00

CONFIDENTIAL

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Quantity</u>	<u>Limit</u>	<u>Qualfr</u>	<u>BackSamp</u>	<u>Man Made</u>	<u>Ubiq</u>	<u>Liquid</u>	<u>Neigh</u>	<u>Reference</u>
007439-97-6	Mercury	0.09 mg/kg	0.10 mg/kg	U				X		
007440-02-0	Nickel	4.70 mg/kg	8.00 mg/kg					X		
007440-36-0	Antimony	6.20 mg/kg	12.00 mg/kg	UNJ				X		
007440-47-3	Chromium	13.00 mg/kg	2.00 mg/kg					X		
007440-50-8	Copper	5.10 mg/kg	5.00 mg/kg					X		
007440-66-6	Zinc	5.40 mg/kg	12.00 mg/kg	J				X		

Session 17 - John Hassall – Rev - Site Score: 50.04 Pathway Score: 100.00

Net Precipitation: 6
Net Precip Ref:

CONFIDENTIAL

Strata 1 - Upper Glacial
This is a Non-Karst aquifer

Hydraulic Conductivity: 1.0E-004
Depth from 0.00 ft to 160.00 ft

Wellhead Protection Area Factor Value: 5 - Designated Wellhead Protection Area is within the target distance limit
Wellhead Reference:

Resources:
Resources Well Name:
Resources Reference:

Well Groups:

<u>Aquifer type</u>	<u>Distance Range</u>	<u>Num of Wells</u>	<u>Population Served</u>
---------------------	-----------------------	---------------------	--------------------------

Individual Wells:

Well 1 - MW-2 -- Monitoring
Latitude: Longitude:
Screening interval from 73.00 to 93.00 ft bgs
Distance from Source :
Population Served:

Sample 1 - JHI-GW-02 9/1/2004
Depth: 83.00 ft bgs
Type: BACKGROUND
Filtered? No
Reference:
Note: Monitoring Well MW-2

<u>CAS_Number</u>	<u>Chemname</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>Dir Ob</u>	<u>BackSamp</u>	<u>Liq</u>	<u>ManMd</u>	<u>Ubq</u>	<u>Neigh</u>	<u>Reference</u>
		<u>Quantity</u>	<u>Limit</u>								
000057-12-5	Cyanide	2.70 ug/L	10.00 ug/L	J			X				
007439-96-5	Manganese	6.70 ug/L	15.00 ug/L	J			X				
007440-02-0	Nickel	2.20 ug/L	40.00 ug/L	J			X				
007440-39-3	Barium	49.60 ug/L	200.00 ug/L	J			X				
007440-47-3	Chromium	1.80 ug/L	10.00 ug/L	J			X				
007440-66-6	Zinc	60.00 ug/L	60.00 ug/L	U			X				

Well 2 - MW-1 -- Monitoring
Latitude: Longitude:
Screening interval from 90.00 to 110.00 ft bgs
Distance from Source :
Population Served:

Sample 1 - JHI-GW-01 9/1/2004
Depth: 100.00 ft bgs
Type: RELEASE
Filtered? No
Reference:
Note: Monitoring Well MW-1

<u>CAS_Number</u>	<u>Chemname</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>Dir Ob</u>	<u>BackSamp</u>	<u>Liq</u>	<u>ManMd</u>	<u>Ubq</u>	<u>Neigh</u>	<u>Reference</u>
		<u>Quantity</u>	<u>Limit</u>								
000057-12-5	Cyanide	10.00 ug/L	10.00 ug/L	U			X				

007439-96-5	Manganese	95.20	ug/L	15.00	ug/L		X
007440-02-0	Nickel	8.60	ug/L	40.00	ug/L	J	X
007440-39-3	Barium	85.00	ug/L	200.00	ug/L	J	X
007440-47-3	Chromium	5.50	ug/L	10.00	ug/L	J	X
007440-66-6	Zinc	25.90	ug/L	60.00	ug/L	J	

Well 3 - MW-1A -- Monitoring

Latitude: Longitude:
 Screening interval from 70.00 to 90.00 ft bgs
 Distance from Source :
 Population Served:

CONFIDENTIAL

Sample 1 - JHI-GW-04 8/30/2004

Depth: 80.00 ft bgs
 Type: RELEASE
 Filtered? No
 Reference:
 Note: Monitoring Well MW-1A

CAS Number	Chemname	Quantity	Quantitation		Qualfr	Dir Ob	BackSamp	Liq	ManMd	Ubq	Neigh	Reference
			Limit									
000057-12-5	Cyanide	10.00 ug/L	10.00	ug/L	U			X				
007439-96-5	Manganese	107.00 ug/L	15.00	ug/L				X				
007440-02-0	Nickel	29.80 ug/L	40.00	ug/L	J			X				
007440-39-3	Barium	363.00 ug/L	200.00	ug/L				X				
007440-47-3	Chromium	4.40 ug/L	10.00	ug/L	J			X				
007440-66-6	Zinc	60.00 ug/L	60.00	ug/L	U			X				

Well 4 - MW-3 -- Monitoring

Latitude: Longitude:
 Screening interval from 58.00 to 78.00 ft bgs
 Distance from Source :
 Population Served:

Sample 1 - JHI-GW-05 9/2/2004

Depth: 68.00 ft bgs
 Type: RELEASE
 Filtered? No
 Reference:
 Note: Monitoring Well MW-3

CAS Number	Chemname	Quantity	Quantitation		Qualfr	Dir Ob	BackSamp	Liq	ManMd	Ubq	Neigh	Reference
			Limit									
000057-12-5	Cyanide	44.30 ug/L	10.00	ug/L				X				
007439-96-5	Manganese	16.60 ug/L	15.00	ug/L				X				
007440-02-0	Nickel	33.40 ug/L	40.00	ug/L	J			X				
007440-39-3	Barium	113.00 ug/L	200.00	ug/L	J			X				
007440-47-3	Chromium	27.30 ug/L	10.00	ug/L				X				
007440-66-6	Zinc	14.60 ug/L	60.00	ug/L	J			X				

Strata 2 - Magothy

This is a Non-Karst aquifer

This is inter-connected with the aquifer directly above it.
 Hydraulic Conductivity: 1.0E-004

Depth from 160.00 ft to 685.00 ft

Wellhead Protection Area Factor Value: 5 - Designated Wellhead Protection Area is within the target distance limit
 Wellhead Reference:

Resources: Irrigation of Commercial Crops
 Resources Well Name:
 Resources Reference:

Well Groups:

<u>Aquifer type</u>	<u>Distance Range</u>	<u>Num of Wells</u>	<u>Population Served</u>
NON-KARST	Greater than 1/2 to 1	4.00	6,550.00
NON-KARST	Greater than 1 to 2	18.00	44,220.00
NON-KARST	Greater than 2 to 3	28.00	56,257.00
NON-KARST	Greater than 3 to 4	35.00	141,006.00

Individual Wells:**Well 5 - Hicksville 6-2 -- Drinking Well**

Latitude: Longitude:
 Screening interval from 408.00 to 428.00 ft bgs
 Distance from Source : 0.65
 Population Served: 3,187.00

CONFIDENTIAL

Sample 1 - JHI-GW-09 8/30/2004

Depth: 428.00 ft bgs
 Type: BACKGROUND
 Filtered? No
 Reference:
 Note: Hicksville 6-2

<u>CAS Number</u>	<u>Chemname</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>Dir Ob</u>	<u>BackSamp</u>	<u>Liq</u>	<u>ManMd</u>	<u>Ubq</u>	<u>Neigh</u>	<u>Reference</u>
		<u>Quantity</u>	<u>Limit</u>								
000057-12-5	Cyanide	10.00 ug/L	10.00 ug/L	U			X				
007439-96-5	Manganese	0.05 ug/L	0.50 ug/L	J			X				
007440-02-0	Nickel	1.20 ug/L	1.00 ug/L				X				
007440-39-3	Barium	15.20 ug/L	10.00 ug/L				X				
007440-47-3	Chromium	0.21 ug/L	2.00 ug/L	U			X				
007440-66-6	Zinc	11.10 ug/L	1.00 ug/L				X				

Well 6 - Westbury 10 -- Drinking Well

Latitude: Longitude:
 Screening interval from 474.00 to 494.00 ft bgs
 Distance from Source : 1.00
 Population Served: 1,843.00

Sample 1 - JHI-GW-03 9/2/2004

Depth: 494.00 ft bgs
 Type: RELEASE
 Filtered? No
 Reference:
 Note: Westbury Well 10

<u>CAS Number</u>	<u>Chemname</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>Dir Ob</u>	<u>BackSamp</u>	<u>Liq</u>	<u>ManMd</u>	<u>Ubq</u>	<u>Neigh</u>	<u>Reference</u>
		<u>Quantity</u>	<u>Limit</u>								
000057-12-5	Cyanide	10.00 ug/L	10.00 ug/L	U							
007439-96-5	Manganese	0.40 ug/L	0.50 ug/L	J			X				
007440-02-0	Nickel	1.00 ug/L	1.00 ug/L				X				
007440-39-3	Barium	6.70 ug/L	10.00 ug/L	J			X				
007440-47-3	Chromium	0.60 ug/L	2.00 ug/L	J			X				
007440-66-6	Zinc	8.80 ug/L	1.00 ug/L				X				

Well 7 - Westbury 14 -- Drinking Well

Latitude: Longitude:
 Screening interval from 370.00 to 390.00 ft bgs
 Distance from Source : 1.00
 Population Served: 1,843.00

Sample 1 - JHI-GW-06 8/30/2004

Depth: 390.00 ft bgs
 Type: RELEASE
 Filtered? No
 Reference:
 Note: Westbury Well 14

<u>CAS Number</u>	<u>Chemname</u>	<u>Quantitation</u>		<u>Qualfr</u>	<u>Dir Ob</u>	<u>BackSamp</u>	<u>Liq</u>	<u>ManMd</u>	<u>Ubq</u>	<u>Neigh</u>	<u>Reference</u>
		<u>Quantity</u>	<u>Limit</u>								
000057-12-5	Cyanide	1.80 ug/L	ug/L	J			X				
007439-96-5	Manganese	0.05 ug/L	0.50 ug/L	J			X				
007440-02-0	Nickel	1.20 ug/L	1.00 ug/L				X				
007440-39-3	Barium	14.60 ug/L	10.00 ug/L				X				
007440-47-3	Chromium	0.17 ug/L	2.00 ug/L	J			X				
007440-66-6	Zinc	23.20 ug/L	1.00 ug/L				X				

Strata 3 - Raritan Clay

This strata is Non-Karst

Hydraulic Conductivity: 1.0E-004

Depth from 685.00 ft to 885.00 ft

Wellhead Protection Area Factor Value: -

Wellhead Reference:

Resources:

Resources Well Name:

Resources Reference:

Well Groups:

<u>Aquifer type</u>	<u>Distance Range</u>	<u>Num of Wells</u>	<u>Population Served</u>
---------------------	-----------------------	---------------------	--------------------------

Individual Wells:

Strata 4 - Lloyd

This is a Non-Karst aquifer

Hydraulic Conductivity: 1.0E-004

Depth from 885.00 ft to 1,185.00 ft

Wellhead Protection Area Factor Value: 5 - Designated Wellhead Protection Area is within the target distance limit

Wellhead Reference:

Resources:

Resources Well Name:

Resources Reference:

Well Groups:

<u>Aquifer type</u>	<u>Distance Range</u>	<u>Num of Wells</u>	<u>Population Served</u>
---------------------	-----------------------	---------------------	--------------------------

Individual Wells:

CONFIDENTIAL

Session 17 - John Hassall – Rev - Site Score: 50.04 Pathway Score: 0.00

CONFIDENTIAL

Area A Former WW Recharge Basin

Size of AOC for RESIDENT population consideration: 960.00 sq ft
Size of AOC for NEARBY population consideration: sq ft

Attractiveness: 5 - Surrounded by maintained fence or combination of maintained fence and natural barriers

Resource Use: -

Sensitive Environments

<u>Sensitive Environment</u>	<u>Sensitive Env. Value</u>	<u>Reference</u>
-	-	

Selected Sources

Source
1 - Former Wastewater Recharge Basin

Resident Population

<u>Population</u>	<u>Distance (ft)</u>	<u>On Property</u>	<u>Source ID - Sample</u>	<u>Population Reference</u>
160.00 WORKERS		Yes	-	

Nearby Population

<u>Population</u>	<u>Distance Category</u>	<u>Population Reference</u>
474.00 RESIDENTS	Greater than 0 to 1/4	
2,776.00 RESIDENTS	Greater than 1/4 to 1/2	
11,637.00 RESIDENTS	Greater than 1/2 to 1	

Session 17 - John Hassall – Rev - Site Score: 50.04 Pathway Score: 4.11
DocRec Comments

Particulate Migration Potential Factor Value: 6
Particulate Mobility Factor Value: 0.00

CONFIDENTIAL

Source 1 - Former Wastewater Recharge Basin
Type: Surface Impoundment(not buried/backfill) / Dry
Source HWQ: 7.385E+001

Containment
Gas - 10 All situations except those specifically listed in HRS Table 6-3.
Particulate - 10 All situations except those specifically listed in HRS Table 6-9.

Sample -
Observation Type:
Height: Distance From Source (mi):
Wind Direction: Interval:
Latitude: Longitude:

Reference:
Notes:

<u>CAS_Number</u>	<u>Chemical_Name</u>	<u>Quantity</u>	<u>Quantitation</u> <u>Limit</u>	<u>Qualfr</u>	<u>Dir</u>	<u>Ob</u>	<u>BackSamp</u>	<u>ManMd</u>	<u>Ubq</u>	<u>Neigh</u>	<u>Reference</u>
-------------------	----------------------	-----------------	-------------------------------------	---------------	------------	-----------	-----------------	--------------	------------	--------------	------------------

Targets

Population				
<u>Distance Category</u>	<u>Level of Concen</u>	<u>Population</u>	<u>Dist to Near Ind</u>	<u>Reference</u>
On Source	POT			
Greater than 0 to 1/4	POT	474.00		
Greater than 1/4 to 1/2	POT	2,776.00		
Greater than 1/2 to 1	POT	11,637.00		
Greater than 1 to 2	POT	37,589.00		
Greater than 2 to 3	POT	57,369.00		
Greater than 3 to 4	POT	73,001.00		
Greater than 4	N/A			

Wetlands			
<u>Distance Category</u>	<u>Level of Concentration</u>	<u>Wetland Acres</u>	<u>Reference</u>
On Source	POT		
Greater than 0 to 1/4	POT		
Greater than 1/4 to 1/2	POT		
Greater than 1/2 to 1	POT		
Greater than 1 to 2	POT		
Greater than 2 to 3	POT		
Greater than 3 to 4	POT	10.00	
Greater than 4	N/A		

Resources	
<u>Resource</u>	<u>Reference</u>
-	

Sensitive Environments

<u>Sensitive Environment</u>	<u>Dist from Src</u>	<u>Rating</u>	<u>Senv Env Reference</u>
1 - Bushy Ruckrose	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
2 - Sandplain Gerardia	3.90	100 - Critical habitat for Federal designated endangered or threatened species	
3 - Stargrass	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
4 - Green Milkweed	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
5 - Flax-Leaf Whitetop	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
6 - Midland Sedge	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
7 - Little-Leaf Tick-Trefoil	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
8 - Slender Beadgrass	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
9 - Few-Flowered Nutrush	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
10 - Peregrine Falcon	3.90	100 - Critical habitat for Federal designated endangered or threatened species	
11 - Slender Crabgrass	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
12 - Yellow Giant-Hyssop	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
13 - Tiger Salamander	3.90	100 - Critical habitat for Federal designated endangered or threatened species	
14 - Rattlebox	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
15 - Smartweed Dodder	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
16 - Persimmon	3.90	50 - Habitat known to be used by State designated endangered or threatened species	

CONFIDENTIAL

Source 2 - Former UST area Contaminated Soil

Type: Contaminated Soil / N/A

Source HWQ:

Containment

Gas - 10 All situations except those specifically listed in HRS Table 6-3.

Particulate - 10 All situations except those specifically listed in HRS Table 6-9.

Sample -

Observation Type:

Height:

Distance From Source (mi):

Wind Direction:

Interval:

Latitude:

Longitude:

Reference:

Notes:

<u>CAS_Number</u>	<u>Chemical_Name</u>	<u>Quantity</u>	<u>Quantitation Limit</u>	<u>Qualfr</u>	<u>Dir Ob</u>	<u>BackSamp</u>	<u>ManMd</u>	<u>Ubq Neigh</u>	<u>Reference</u>
-------------------	----------------------	-----------------	---------------------------	---------------	---------------	-----------------	--------------	------------------	------------------

Targets

Population

<u>Distance Category</u>	<u>Level of Concen</u>	<u>Population</u>	<u>Dist to Near Ind</u>	<u>Reference</u>
On Source	POT			
Greater than 0 to 1/4	POT		474.00	
Greater than 1/4 to 1/2	POT		2,776.00	
Greater than 1/2 to 1	POT		11,637.00	
Greater than 1 to 2	POT		37,589.00	
Greater than 2 to 3	POT		57,369.00	
Greater than 3 to 4	POT		73,001.00	
Greater than 4	N/A			

CONFIDENTIAL

Wetlands

<u>Distance Category</u>	<u>Level of Concentration</u>	<u>Wetland Acres</u>	<u>Reference</u>
On Source	POT		
Greater than 0 to 1/4	POT		
Greater than 1/4 to 1/2	POT		
Greater than 1/2 to 1	POT		
Greater than 1 to 2	POT		
Greater than 2 to 3	POT		
Greater than 3 to 4	POT	10.00	
Greater than 4	N/A		

Resources

<u>Resource</u>	<u>Reference</u>
-	

Sensitive Environments

<u>Sensitive Environment</u>	<u>Dist from Src</u>	<u>Rating</u>	<u>Senv Env Reference</u>
1 - Bushy Ruckrose	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
2 - Sandplain Gerardia	3.90	100 - Critical habitat for Federal designated endangered or threatened species	
3 - Stargrass	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
4 - Green Milkweed	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
5 - Flax-leaf Whitetop	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
6 - Midland Sedge	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
7 - Little-leaf Tick-trefoil	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
8 - Slender Beadgrass	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
9 - Few Flowered Nutrush	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
10 - Peregrine Falcon	3.90	100 - Critical habitat for Federal designated endangered or threatened species	
11 - Slender Crabgrass	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
12 - Yellow Giant Hyssop	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
13 - Tiger Salamander	3.90	100 - Critical habitat for Federal designated endangered or threatened species	
14 - Rattlebox	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
15 - Smart-weed Dodder	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
16 - Persimmon	3.90	50 - Habitat known to be used by State designated endangered or threatened species	